CRF Errors Corrected by the STIC Systems Branch   Team 4

Serial Number: _08/572,027_

CRF Processing Date: 2/13/96
Edited by: _____
Verified by: _MB_ (STIC staff)

#2

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:
_____   ~~ENTERE~~

☑ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
_____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:
_____

☐ Deleted extra, invalid, headings used by an applicant, specifically:
_____

☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____ .

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:
_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other:
_____
_____
_____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.   3/1/95

> This Raw Listing contains the General
> Information Section and up to the first 5 pages.

```
 1                              SEQUENCE LISTING              Does Not Comply
 2
 3    (1)      General Information:
 4
 5          (i) APPLICANT: DeBonte, L. et al.
 6
 7         (ii) TITLE OF INVENTION: PLANTS HAVING MUTANT SEQUENCES THAT CONFER
 8                                  ALTERED FATTY ACID PROFILES
 9
10        (iii) NUMBER OF SEQUENCES: 8
11
12         (iv) CORRESPONDENCE ADDRESS:
13               (A) ADDRESSEE: Fish & Richardson, P.C., P.A.
14               (B) STREET: 60 South Sixth Street, Suite 3300
15               (C) CITY: Minneapolis
16               (D) STATE: MN
17               (E) COUNTRY: USA
18               (F) ZIP: 55402
19
20          (v) COMPUTER READABLE FORM:
21               (A) MEDIUM TYPE: Floppy disk
22               (B) COMPUTER: IBM PC compatible
23               (C) OPERATING SYSTEM: PC-DOS/MS-DOS
24               (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
25
26         (vi) CURRENT APPLICATION DATA:
27               (A) APPLICATION NUMBER: US 08/416,497
28               (B) FILING DATE: 04-APR-1995
29               (C) CLASSIFICATION:
30
31         (vi) PRIOR APPLICATION DATA:
32               (A) APPLICATION NUMBER: US 08/170,886
33               (B) FILING DATE: 21-DEC-1993
34               (C) CLASSIFICATION:
35
36         (vi) PRIOR APPLICATION DATA:
37               (A) APPLICATION NUMBER: US 07/739,965
38               (B) FILING DATE: 05-AUG-1991
39               (C) CLASSIFICATION:
40
41         (vi) PRIOR APPLICATION DATA:
42               (A) APPLICATION NUMBER: US 07/575,542
43               (B) FILING DATE: 30-AUG-1990
44               (C) CLASSIFICATION:
45
46        (viii) ATTORNEY/AGENT INFORMATION:
```

(handwritten annotation near line 27-31: "Prior")

INPUT SET: S8732.raw

```
47              (A)  NAME: Ellinger, Mark S.
48              (B)  REGISTRATION NUMBER: 34,812
49              (C)  REFERENCE/DOCKET NUMBER: A21-535.10
50
51         (ix) TELECOMMUNICATION INFORMATION:
52              (A)  TELEPHONE: 612/335-5070
53              (B)  TELEFAX: 612/288-9696
54
55   (2) INFORMATION FOR SEQ ID NO:1:
56
57         (i)  SEQUENCE CHARACTERISTICS:
58              (A)  LENGTH: 1155 base pairs
59              (B)  TYPE: nucleic acid
60              (C)  STRANDEDNESS: single
61              (D)  TOPOLOGY: linear
62
63        (ii)  MOLECULE TYPE: DNA
64
65       (iii)  HYPOTHETICAL: NO
66
67        (iv)  ANTI-SENSE: NO
68
69        (vi)  ORIGINAL SOURCE:
70              (A)  ORGANISM: Brassica napus
71
72        (ix)  FEATURE:
73              (D)  OTHER INFORMATION: Wild type D form.
74
75
76        (xi)  SEQUENCE DESCRIPTION: SEQ ID NO:1:
77
78   ATG GGT GCA GGT GGA AGA ATG CAA GTG TCT CCT CCC TCC AAG AAG TCT          48
79   Met Gly Ala Gly Gly Arg Met Gln Val Ser Pro Pro Ser Lys Lys Ser
80    1               5                  10                  15
81
82   GAA ACC GAC ACC ATC AAG CGC GTA CCC TGC GAG ACA CCG CCC TTC ACT          96
83   Glu Thr Asp Thr Ile Lys Arg Val Pro Cys Glu Thr Pro Pro Phe Thr
84                  20                  25                  30
85
86   GTC GGA GAA CTC AAG AAA GCA ATC CCA CCG CAC TGT TTC AAA CGC TCG         144
87   Val Gly Glu Leu Lys Lys Ala Ile Pro Pro His Cys Phe Lys Arg Ser
88              35                  40                  45
89
90   ATC CCT CGC TCT TTC TCC TAC CTC ATC TGG GAC ATC ATC ATA GCC TCC         192
91   Ile Pro Arg Ser Phe Ser Tyr Leu Ile Trp Asp Ile Ile Ile Ala Ser
92          50                  55                  60
93
94   TGC TTC TAC TAC NTC GCC ACC ACT TAC TTC CCT CTC CTC CCT CAC CCT         240
95   Cys Phe Tyr Tyr Xaa Ala Thr Thr Tyr Phe Pro Leu Leu Pro His Pro
96    65                  70                  75                  80
97
98   CTC TCC TAC TTC GCC TGG CCT CTC TAC TGG GCC TGC CAA GGG TGC GTC         288
99   Leu Ser Tyr Phe Ala Trp Pro Leu Tyr Trp Ala Cys Gln Gly Cys Val
```

RAW SEQUENCE LISTING
PATENT APPLICATION   *US/08/572,027*

INPUT SET: S8732.raw

```
100                    85                      90                      95
101
102    CTA ACC GGC GTC TGG GTC ATA GCC CAC GAA TGC GGC CAC CAC GCC TTC    336
103    Leu Thr Gly Val Trp Val Ile Ala His Glu Cys Gly His His Ala Phe
104            100                     105                     110

105
106    AGC GAC TAC CAG TGG CTT GAC GAC ACC GTC GGT CTC ATC TTC CAC TCC    384
107    Ser Asp Tyr Gln Trp Leu Asp Asp Thr Val Gly Leu Ile Phe His Ser
108            115                     120                     125
109
110    TTC CTC CTC GTC CCT TAC TTC TCC TGG AAG TAC AGT CAT CGC AGC CAC    432
111    Phe Leu Leu Val Pro Tyr Phe Ser Trp Lys Tyr Ser His Arg Ser His
112            130                     135                     140
113
114    CAT TCC AAC ACT GGC TCC CTC GAG AGA GAC GAA GTG TTT GTC CCC AAG    480
115    His Ser Asn Thr Gly Ser Leu Glu Arg Asp Glu Val Phe Val Pro Lys
116    145                     150                     155                     160
117
118    AAG AAG TCA GAC ATC AAG TGG TAC GGC AAG TAC CTC AAC AAC CCT TTG    528
119    Lys Lys Ser Asp Ile Lys Trp Tyr Gly Lys Tyr Leu Asn Asn Pro Leu
120                    165                     170                     175
121
122    GGA CGC ACC GTG ATG TTA ACG GTT CAG TTC ACT CTC GGC TGG CCG TTG    576
123    Gly Arg Thr Val Met Leu Thr Val Gln Phe Thr Leu Gly Trp Pro Leu
124                    180                     185                     190
125
126    TAC TTA GCC TTC AAC GTC TCG GGA AGA CCT TAC GAC GGC GGC TTC CGT    624
127    Tyr Leu Ala Phe Asn Val Ser Gly Arg Pro Tyr Asp Gly Gly Phe Arg
128            195                     200                     205
129
130    TGC CAT TTC CAC CCC AAC GCT CCC ATC TAC AAC GAC CGC GAG CGT CTC    672
131    Cys His Phe His Pro Asn Ala Pro Ile Tyr Asn Asp Arg Glu Arg Leu
132            210                     215                     220
133
134    CAG ATA TAC ATC TCC GAC GCT GGC ATC CTC GCC GTC TGC TAC GGT CTC    720
135    Gln Ile Tyr Ile Ser Asp Ala Gly Ile Leu Ala Val Cys Tyr Gly Leu
136    225                     230                     235                     240
137
138    TTC CGT TAC GCC GCC GGC CAG GGA GTG GCC TCG ATG GTC TGC TTC TAC    768
139    Phe Arg Tyr Ala Ala Gly Gln Gly Val Ala Ser Met Val Cys Phe Tyr
140                    245                     250                     255
141
142    GGA GTC CCG CTT CTG ATT GTC AAT GGT TTC CTC GTG TTG ATC ACT TAC    816
143    Gly Val Pro Leu Leu Ile Val Asn Gly Phe Leu Val Leu Ile Thr Tyr
144                    260                     265                     270
145
146    TTG CAG CAC ACG CAT CCT TCC CTG CCT CAC TAC GAT TCG TCC GAG TGG    864
147    Leu Gln His Thr His Pro Ser Leu Pro His Tyr Asp Ser Ser Glu Trp
148            275                     280                     285
149
150    GAT TGG TTC AGG GGA GCT TTG GCT ACC GTT GAC AGA GAC TAC GGA ATC    912
151    Asp Trp Phe Arg Gly Ala Leu Ala Thr Val Asp Arg Asp Tyr Gly Ile
152            290                     295                     300
```

RAW SEQUENCE LISTING
PATENT APPLICATION   *US/08/572,027*

INPUT SET: S8732.raw

```
153
154    TTG AAC AAG GTC TTC CAC AAT ATT ACC GAC ACG CAC GTG GCC CAT CAT        960
155    Leu Asn Lys Val Phe His Asn Ile Thr Asp Thr His Val Ala His His
156    305                 310                 315                 320
157
158    CCG TTC TCC ACG ATG CCG CAT TAT CAC GCG ATG GAA GCT ACC AAG GCG       1008
159    Pro Phe Ser Thr Met Pro His Tyr His Ala Met Glu Ala Thr Lys Ala
160                        325                 330                 335
161
162    ATA AAG CCG ATA CTG GGA GAG TAT TAT CAG TTC GAT GGG ACG CCG GTG       1056
163    Ile Lys Pro Ile Leu Gly Glu Tyr Tyr Gln Phe Asp Gly Thr Pro Val
164                    340                 345                 350
165
166    GTT AAG GCG ATG TGG AGG GAG GCG AAG GAG TGT ATC TAT GTG GAA CCG       1104
167    Val Lys Ala Met Trp Arg Glu Ala Lys Glu Cys Ile Tyr Val Glu Pro
168                355                 360                 365
169
170    GAC AGG CAA GGT GAG AAG AAA GGT GTG TTC TGG TAC AAC AAT AAG TTA T      1153
171    Asp Arg Gln Gly Glu Lys Lys Gly Val Phe Trp Tyr Asn Asn Lys Leu
172            370                 375                 380
173
174    GA                                                                   1155
175
176
177    (2) INFORMATION FOR SEQ ID NO:2:
178
179            (i) SEQUENCE CHARACTERISTICS:
180                (A) LENGTH: 384 amino acids
181                (B) TYPE: amino acid
182                (D) TOPOLOGY: linear
183
184            (ii) MOLECULE TYPE: protein
185
186            (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
187
188    Met Gly Ala Gly Gly Arg Met Gln Val Ser Pro Pro Ser Lys Lys Ser
189      1               5                  10                  15
190
191    Glu Thr Asp Thr Ile Lys Arg Val Pro Cys Glu Thr Pro Pro Phe Thr
192                    20                  25                  30
193
194    Val Gly Glu Leu Lys Lys Ala Ile Pro Pro His Cys Phe Lys Arg Ser
195                35                  40                  45
196
197    Ile Pro Arg Ser Phe Ser Tyr Leu Ile Trp Asp Ile Ile Ile Ala Ser
198        50                  55                  60
199
200    Cys Phe Tyr Tyr Xaa Ala Thr Thr Tyr Phe Pro Leu Leu Pro His Pro
201      65                  70                  75                  80
202
203    Leu Ser Tyr Phe Ala Trp Pro Leu Tyr Trp Ala Cys Gln Gly Cys Val
204                    85                  90                  95
205
```

RAW SEQUENCE LISTING
PATENT APPLICATION   *US/08/572,027*

INPUT SET: S8732.raw

```
206   Leu Thr Gly Val Trp Val Ile Ala His Glu Cys Gly His His Ala Phe
207           100                 105                 110
208
209   Ser Asp Tyr Gln Trp Leu Asp Asp Thr Val Gly Leu Ile Phe His Ser
210           115                 120                 125
211
212   Phe Leu Leu Val Pro Tyr Phe Ser Trp Lys Tyr Ser His Arg Ser His
213           130                 135                 140
214
215   His Ser Asn Thr Gly Ser Leu Glu Arg Asp Glu Val Phe Val Pro Lys
216   145                 150                 155                 160
217
218   Lys Lys Ser Asp Ile Lys Trp Tyr Gly Lys Tyr Leu Asn Asn Pro Leu
219               165                 170                 175
220
221   Gly Arg Thr Val Met Leu Thr Val Gln Phe Thr Leu Gly Trp Pro Leu
222           180                 185                 190
223
224   Tyr Leu Ala Phe Asn Val Ser Gly Arg Pro Tyr Asp Gly Gly Phe Arg
225           195                 200                 205
226
227   Cys His Phe His Pro Asn Ala Pro Ile Tyr Asn Asp Arg Glu Arg Leu
228           210                 215                 220
229
230   Gln Ile Tyr Ile Ser Asp Ala Gly Ile Leu Ala Val Cys Tyr Gly Leu
231   225                 230                 235                 240
232
233   Phe Arg Tyr Ala Ala Gly Gln Gly Val Ala Ser Met Val Cys Phe Tyr
234               245                 250                 255
235
236   Gly Val Pro Leu Leu Ile Val Asn Gly Phe Leu Val Leu Ile Thr Tyr
237           260                 265                 270
238
239   Leu Gln His Thr His Pro Ser Leu Pro His Tyr Asp Ser Ser Glu Trp
240           275                 280                 285
241
242   Asp Trp Phe Arg Gly Ala Leu Ala Thr Val Asp Arg Asp Tyr Gly Ile
243           290                 295                 300
244
245   Leu Asn Lys Val Phe His Asn Ile Thr Asp Thr His Val Ala His His
246   305                 310                 315                 320
247
248   Pro Phe Ser Thr Met Pro His Tyr His Ala Met Glu Ala Thr Lys Ala
249               325                 330                 335
250
251   Ile Lys Pro Ile Leu Gly Glu Tyr Tyr Gln Phe Asp Gly Thr Pro Val
252           340                 345                 350
253
254   Val Lys Ala Met Trp Arg Glu Ala Lys Glu Cys Ile Tyr Val Glu Pro
255           355                 360                 365
256
257   Asp Arg Gln Gly Glu Lys Lys Gly Val Phe Trp Tyr Asn Asn Lys Leu
258           370                 375                 380
```

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/08/572,027*

INPUT SET: S8732.raw

Line	Error	Original Text
27	Wrong application Serial Number	(A) APPLICATION NUMBER: US 08/416,497